



## **COMMONWEALTH of VIRGINIA**

### **Department of Health DIVISION OF SHELLFISH SANITATION**

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#### **ROSIER CREEK Growing Area # 001 King George and Westmoreland County Shoreline Sanitary Survey**

**Date:** 28 September 2004

**Survey Period:** July 19, 2004 – September 20, 2004

**Total Number of Properties Surveyed:** 329

**Surveyed By:** D.R. Beuchelt

#### **SECTION A: GENERAL**

The survey area extends from Reference Point 1 on Stoney Point Road (Δ marker) along the south side of Stoney Point Road, including properties on Spy Hill Road, out to the intersection of Tetotum Rd., following Tetotum Rd. to the intersection of Ridge Rd, and returning back to the intersection of Good Hope Road, following Good Hope Road out to Ridge road, then east on Ridge Road to the intersection of Tetotum Rd. and back up to the intersection of Alden Road, then down the east side of Alden to Round Hill Road. Beginning at the intersection of Alden Road and continuing on Round Hill Road out to Ridge Road heading east to the Bridge at Goldman creek and back west on Ridge Road to Treacle Lane onto Longfield Road to the survey boundary line and back to Ridge Road, back down Longfield Road and out to the intersection of Treacle Lane.

Survey continues at the bridge at Goldman Creek and follows the east side of McKinney Blvd. (Rt. 205) into the town of Colonial Beach to approximately the 3000 block of McKinney Blvd (Rt.205), including the Colonial Beach Sewage Treatment plant at 2301 McKinney Blvd. to Darl Circle then picked up on the left side of McKinney Blvd. back to the bridge at Goldman Creek.

The topography is characterized by ridges rising in elevation to 160' on Tetotum Rd. and 100' on Ridge Rd. and decreasing to 50' at the headwaters of Rosier Creek and falling to 30' on the North side and 25' on the South side at the mouth of Rosier Creek. An elevation of 25' is found on Goldman Creek until the mouth of the creek where the elevation decreases to 10'.

Meteorological data indicates that 4.35" rain fell July 20-31, 8.68" in August, and 1.66" September 1-13, 2004, for total of 14.69 inches during the survey period.

In the last survey, conducted in 1997, there were no sewage facilities reported. This survey found a Sewage Treatment Facility located at 2301 McKinney Blvd. in Colonial Beach. The STF discharges into Monroe Bay, but is located at the headwater of Goldman Creek. The STF serves approx. 32,000 people and has approx. 1500 connections.

Included in the Shoreline Sanitary Survey report of Growing Area # 001A, Upper Machodoc Creek, conducted April 15 – June 16, 2003, by Gary A. Wood, it states that sewage from two Sewage Treatment Facilities serving King George County schools, previously discharging into Upper Machodoc Creek, are now routed to a plant at Purkins corner and discharging into Pine Hill Creek, a tributary of Rosier Creek. This plant serves the three King George County schools. According to Wesley Basore, *King George Service Authority*, when school is in session it treats approximately 35,000 GPD. During the summer months this figure is reduced to 8,000 to 9,000 GPD. Copies of both STF inspections are included with this report.

It was found in this survey that two new subdivisions are currently under construction in Westmoreland County. One on Shellfield Lane, should be connected to the Colonial Beach sewer system within a few weeks from this report. This division has three homes currently on private septic systems, which will be connected to the sewer along with the new homes to begin construction soon. It is important to note that not all the existing homes on Shellfield Lane will be considered part of the new division or will be connected to sewer. The second division, located on the west side at approximately the 1500 block of McKinney Blvd., will not be on the Colonial Beach sewer system but will have individual septic systems. The construction of this division is to begin with a few weeks of this report.

Copies for Bacteriological, Hydrographic and Shellfish Closure data are available at the area office for review. Copies of the current condemnation notices and maps are available via the internet at <http://www.vdh.virginia.gov/environmentalhealth/shellfish/>.

Included with this report, but not required, are Hydrographic and Bacteriological Data Reports covering the period from 3 June 2003 to 19 August 2004. It is important to indicate that this area has been subjected to heavy rainfalls and the September 2003 effects of Hurricane Isabel.

Effects from the remnants of Hurricane Isabel destroyed the beach, docks, seawalls, homes and businesses to the extreme that some are no longer in existence. Some of the older homes have been abandoned or torn down and new homes constructed on the properties.

Information in the report is gathered and used primarily by the Division of Shellfish Sanitation, Virginia Department of Health, in order to fulfill its responsibilities of shellfish growing area supervision and classification. Data in the report are also made available to other agencies participating in shellfish program activities and other interested parties.

Report copies are provided to the local health department for corrective action of deficiencies listed on the summary page in Section B.2. and B.3., and the Department of Environmental Quality, Water Regional Office for possible action at properties listed on the summary page in Section B.1.

This report lists only those properties that have a sanitary deficiency or have other environmental significance. Individual field forms with full information on properties listed in this report are on file in the Richmond office of the Division of Shellfish Sanitation and are available for reference until superseded by a subsequent survey of the area.

## **SECTION B: SEWAGE POLLUTION SOURCES**

### **SEWAGE TREATMENT FACILITIES**

11. **DIRECT** – Colonial Beach Waste Water Treatment Plant, 2301 McKinney Blvd., Colonial Beach 22443. Present operating capacity is 600,000 GPD with a design flow of 2 MGD. This plant is a complete mix activated sludge treatment plant, VPDES Permit # VA0026409 in Westmoreland County. Discharge point is 001 in Monroe Bay. The sludge is pressed and transferred and disposed of at the King George landfill.
14. **DIRECT** – Purkins Corner Wastewater Plant, 11224 Henry Griffith Rd., King George, 22485. Operating capacity is 60,000 GPD. When school is in session, this plant operates at approximately 35,000 GPD. During the summer months it operates at 8,000 to 9,000 GPD. This is an extended aeration package plant, VPDES Permit # 0070106. Discharge is into Pine Hill Creek, a tributary of Rosiers Creek. This sewage treatment facility is located approximately 4.5 miles west of the survey area boundary and is not shown on the accompanying map.

### **ON-SITE SEWAGE DEFICIENCIES**

3. CONTRIBUTES POLLUTION – Location: 10171 Tetotum Road, King George 22485. Dwelling – white vinyl siding 2 stories. 2 people. Effluent erupting from drain field onto ground surface. Sanitary notice issued 07-27-04 to field # A49.
6. CONTRIBUTES POLLUTION – Location: 16019 Fox Chase Lane, King George 22485. Dwelling - Cream colored shingles one story. 1 Person. Effluent erupting from drain field onto ground surface. Sanitary notice issued 08-11-04 to field # 123.

### **POTENTIAL POLLUTION**

2. Location: 18258 Stoney Pt. Road, King George 22485. Dwelling – Double wide, light gray vinyl with white trim and blue shutters. 5 people. Area over drain field soft and shallow with tall grass. No sign of discharge. No odor.
5. Location: 10501 Tetotum Road, King George 22485. Dwelling – white vinyl siding 1-story with white trim. 4-inch PVC pipe underground running from house to cliff showing no sign of discharge.
12. Location: 267 Darl Circle, Colonial Beach 22443. Dwelling – one story white siding. No contact. Front and side yards full of debris, junk, old washing machines and filled trash bags. Back yard – fenced and heavy overgrowth with trees, bushes and grass. No signs of malfunction, no odor detected. Appearance of property suggests that a deviation could exist.

## **SECTION C: NON-SEWAGE WASTE SITES**

### **INDUSTRIAL WASTES**

1. Location: 10114 Marengo Farm Lane, King George, 22485. Located on property were two 500 gal. fuel tanks, above ground with no berm.

4. Carl's Auto Salvage, 17406 Rosiers Creek Lane, King George, VA 22485. Business-auto salvage yard. Occupant stated junked cars plus an assortment of mechanical debris are parked on 15 acres of land.

Also located on the property was one 1000 gallon diesel fuel tank above ground without a physical berm.

9. ***DIRECT*** – Occupant: Shady Lane Seafood, Colonial Beach 22443. Owner: Elgin H. Nininger, Jr., 20699 Ridge Rd., Colonial Beach 22443. Business-seafood dealer. Portable gas cans, crab pots and other materials associated with crabbing and seafood processing.
13. Location: across from 3900 McKinney Blvd. Present at the time of the survey were two tanks, above ground, without any berm. Size of the tanks are unknown. One tank is marked Diesel fuel, and the second tank is marked Gasoline.

#### **SOLID WASTE DUMPSITES**

4. Carl's Auto Salvage, 17406 Rosiers Creek Lane, King George, VA 22485. Business-auto salvage yard. 2 employees. Observed on site were junked cars and mechanical debris which covered 15 acres.

#### **SECTION D: BOATING ACTIVITY**

##### **MARINAS**

-None-

##### **OTHER PLACES WHERE BOATS ARE MOORED**

8. Location: 20478 Ridge Rd., Colonial Beach, VA 22443. Docking facility. No contact. Present at the time were 9 boats under 26'. Boating services provided are an in-out ramp and electrical outlets. There were no sanitary facilities, no boat holding tank pump-out facilities and no dump station facilities provided at this location.
9. Shady Lane Seafood, Colonial Beach 22443. Owner: Elgin H. Nininger Jr., 20699 Ridge Road. Business – seafood processor and dealer. 3 persons. Present at time of survey were 3 boats 26-39 feet. There is one fuel pump located on the dock. There are no dump stations or pump out stations provided. A restroom facility is provided.
10. Location: 20735 Ridge Road, Colonial Beach 22443. This is a private Dock with 10 moorings available. Present at the time of the survey were 2 boats under 26'. There are no boating services provided.

#### **SECTION E: CONTRIBUTES ANIMAL POLLUTION**

1. Location: 10114 Marengo Farm Lane, King George, VA 22485. Dwelling – white, vinyl siding 2-story with green shutters. Present at time were 60 cows and 1 horse. Manure rots on fields. No access to Creek. According to owner's daughter, the farm complies with the Chesapeake Bay Water Act.

6. ***DIRECT*** – Location: 16019 Fox Chase Lane, King George 22485. Cream colored shingles one story. 1 person. Present at time were 14 horses. Manure rots on field. Pine Hill Creek is approximately 150 feet from the barn and 100 feet from the lot.
7. ***DIRECT*** – Location: 16041 Round Hill Rd., King George 22485. Present at time was 5 horses and 4 dogs with access to a ditch that drained to a tributary off of Rosier's Creek.

## SUMMARY

AREA # 001  
ROSIER CREEK  
28 September 2004

### SECTION B: SEWAGE POLLUTION SOURCES

#### 1. SEWAGE TREATMENT FACILITIES

- 2 – DIRECT – # 11, 14
- 0 – INDIRECT – NONE
- 2 – B.1. TOTAL

**2. ON-SITE SEWAGE DEFICIENCIES** – Correction of deficiencies in this section is the responsibility of the local Health department,

- 0 – CONTRIBUTES POLLUTION, DIRECT – None
- 2 – CONTRIBUTES POLLUTION, INDIRECT – # 3, 6
- 0 – CP (Kitchen or Laundry Wastes), DIRECT – None
- 0 – CP (Kitchen or Laundry Wastes), INDIRECT – None
- 0 – NO FACILITIES, DIRECT – None
- 0 – NO FACILITIES, INDIRECT – None
- 2 – B.2. TOTAL

**3. POTENTIAL POLLUTION** – Periodic surveillance of these properties will be maintained to determine any status change.

- 3 – POTENTIAL POLLUTION – # 2,5,12

### SECTION C: NON-SEWAGE WASTE SITES

#### 1. INDUSTRIAL WASTE SITES

- 1 – DIRECT – # 9
- 3 – INDIRECT – # 1, 4, 13
- 4 – C.1. TOTAL

#### 2. SOLID WASTE SITES

- 0 – DIRECT – None
- 1 – INDIRECT – # 4
- 1 – C.2. TOTAL

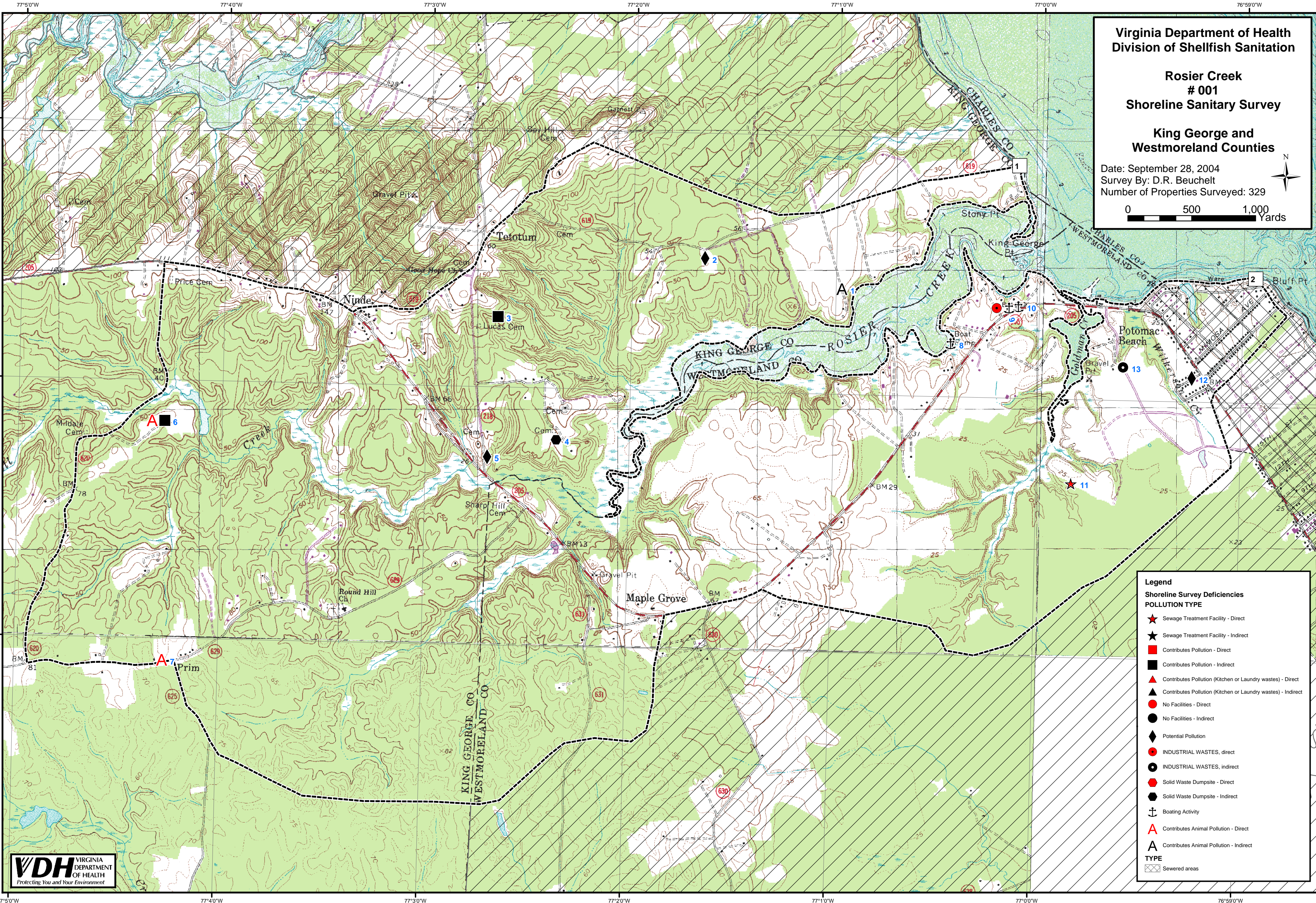
### SECTION D: BOATING ACTIVITY

- 0 – MARINAS – None
- 3 – OTHER PLACES WHERE BOATS ARE MOORED – # 8, 9, 10
- 0 – UNDER SURVEILLANCE – None
- 3 – D. TOTAL

### SECTION E: CONTRIBUTES ANIMAL POLLUTION

- 2 – DIRECT – # 6, 7
- 1 – INDIRECT – # 1
- 3 – E. TOTAL





Virginia Department of Health  
Division of Shellfish Sanitation

Rosier Creek  
# 001  
Shoreline Sanitary Survey

King George and  
Westmoreland Counties

Date: September 28, 2004  
Survey By: D.R. Beuchelt  
Number of Properties Surveyed: 329

05001000

Yards

N

Legend

Shoreline Survey Deficiencies

POLLUTION TYPE

★

Sewage Treatment Facility - Direct

★

Sewage Treatment Facility - Indirect

■

Contributes Pollution - Direct

■

Contributes Pollution - Indirect

▲

Contributes Pollution (Kitchen or Laundry wastes) - Direct

▲

Contributes Pollution (Kitchen or Laundry wastes) - Indirect

●

No Facilities - Direct

●

No Facilities - Indirect

◆

Potential Pollution

●

INDUSTRIAL WASTES, direct

●

INDUSTRIAL WASTES, indirect

●

Solid Waste Dumpsite - Direct

●

Solid Waste Dumpsite - Indirect

⚓

Boating Activity

A

Contributes Animal Pollution - Direct

A

Contributes Animal Pollution - Indirect

TYPE

▨

Sewered areas